

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Machine Id OR343 Component

Fluic

Diesel Engine

PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time.

🔺 Wear

Copper ppm levels are abnormal. Bearing wear is indicated.

Contamination

Test for glycol is positive. Light fuel dilution occurring. There is a light concentration of glycol present in the oil. No other contaminants were detected in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

		May2020	Jan2021	Mar2021 Apr2021	Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0092257	GFL0010898	GFL0010910	
Sample Date		Client Info		21 Aug 2023	28 Apr 2021	10 Mar 2021	
Machine Age	hrs	Client Info		15462	0	12385	
Oil Age	hrs	Client Info		500	0	1	
Oil Changed		Client Info		Changed	N/A	Not Changd	
Sample Status				ABNORMAL	ABNORMAL	SEVERE	
WEAR METALS	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>37	24	25	19	
Chromium	ppm	ASTM D5185(m)	>11	2	2	<1	
Nickel	ppm	ASTM D5185(m)	>5	3	4	2	
Titanium	ppm	ASTM D5185(m)		<1	0	<1	
Silver	ppm	ASTM D5185(m)	>3	<1	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>31	9	11	5	
Lead	ppm	ASTM D5185(m)	>26	5	12	11	
Copper	ppm	ASTM D5185(m)	>26	<mark> 8</mark> 3	66	50	
Tin	ppm	ASTM D5185(m)	>4	<1	1	<1	
Antimony	ppm	ASTM D5185(m)		0	<1	0	
Vanadium	ppm	ASTM D5185(m)		0	0	<1	
Beryllium	ppm	ASTM D5185(m)		0	0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0	5	4	11	
Barium	ppm	ASTM D5185(m)	0	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	60	60	85	120	
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185(m)	1010	928	912	883	
Calcium	ppm	ASTM D5185(m)	1070	971	1111	1163	
Phosphorus	ppm	ASTM D5185(m)	1150	990	949	916	
Zinc	ppm	ASTM D5185(m)	1270	1084	1180	1159	
Sulfur	ppm	ASTM D5185(m)	2060	2393	2460	2609	
Lithium	ppm	ASTM D5185(m)		<1	<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>22	10	15	14	
Sodium	ppm	ASTM D5185(m)	>31	<mark>/</mark> 87	28	19	
Potassium	ppm	ASTM D5185(m)	>20	<mark>/</mark> 34	13	2 9	
Fuel	%	ASTM D7593*	>2.1	1.5	2 .1	1.1	
Glycol	%	ASTM D7922*		A 0.016	0.0	0.106	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0	0.3	0.1	
Nitration	Abs/cm	ASTM D7624*	>20	6.8	7.8	7.2	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	20.7	21.3	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6	15.5	16.8	



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